

Amendments to the Claims:

Claim 1 (currently amended): A digital security system comprising:

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at least one camera unit for capturing and transmitting frames of video and/or audio signals over a communication network, wherein said camera unit is programmable to perform at least one of the following: to transmit either a snap shot or an event clip upon detecting a predefined event, to simultaneously transmit both a snap shot and an event clip upon detecting a predefined event, and to detect different predefined events based on the time of day;

at least one customer server coupled to the camera unit via the communications network;

at least one customer work station coupled to the customer server via the communications network;

an administrator server coupled to the at least one client server via the communications network; and

authentication means at the administrator server for authenticating a customer at the at least one customer work station so as to allow the work station to receive the video and/or audio signals transmitted by the at least one camera unit.

Claim 2 (original): The system of claim 1, wherein the camera unit transmits video and/or audio signals over the communications network only after detecting a predefined event.

Claim 3 (original): The system of claim 1, wherein the camera unit transmits video and/or audio signals over the communications network in response to receiving a command from a user at the customer work station or an administrator work station.

Claim 4 (original): The system of claim 1, wherein the camera unit tags the frames of video and/or audio signals based upon detecting one of a plurality of predefined events.

Claim 5 (original): The system of claim 1, wherein the camera unit transmits an event packet when a predefined event is detected.

Claims 6 – 8 (canceled)

Claim 9 (original): The system of claim 1, wherein the camera unit is operable in a plurality of modes.

Claim 10 (original): The system of claim 9, wherein the camera unit may be remotely configured to operate in one of the plurality of modes via the at least one customer work station.

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Claim 11 (original): The system of claim 1, wherein the camera unit includes a glass break detector.

Claim 12 (original): The system of claim 11, wherein the glass break detector includes: an audio input receiver means, a digital signal processor for computing spectrograms of incoming audio signals, and a means for comparing a predefined glass break spectrogram template against the spectrograms computed by the digital signal processor.

Claim 13 (original): The system of claim 1, wherein the camera unit includes a motion detector that analyzes the video signals captured by the camera unit.

Claim 14 (original): The system of claim 13, wherein the motion detector comprises a digital signal processor that includes an automatic learn component that automatically updates a stored background image against which the digital signal processor performs motion analysis detection.

Claim 15 (original): The system of claim 13, wherein the camera unit increases one or more of the bit rate, pixel coding depth, the image size, frame rate, and compression algorithm format associated with the video signals in response to detecting motion in the video signals.

Claim 16 (original): The system of claim 13, wherein the camera unit includes an object detector.

Claim 17 (original): The system of claim 13, wherein the camera unit includes an object speed detector.

Claim 18 (original): The system of claim 13, wherein the camera unit determines whether to transmit an event packet over the network based on the speed of the detected object.

Claim 19 (original): The system of claim 13, wherein the camera unit includes an object movement detector that detects the direction of movement of a detected object.

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Claim 20 (original): The system of claim 19, wherein the camera unit determines whether to transmit an event packet over the network based on what direction the detected object is moving.

Claim 21 (original): The system of claim 1, wherein the authentication means includes means to compare inputted user identification information against a database of monitored sites to which the user may access.

Claim 22 (original): The system of claim 1, wherein the administrator server receives the event packets and associated video and/or audio information, and intelligently routes the packets and information to one or more administrator work stations.

Claim 23 (original): The system of claim 1, wherein the administrator server includes means for receiving event packet information from the at least one camera unit, and means for transmitting relevant contact information to one or more administrator work stations.

Claim 24 (original): The system of claim 1, wherein the administrator server includes means for receiving the event packet information from the at least one camera unit and means for automatically contacting one or more of the local police, local fire department, and customer contact.

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Claim 25 (original): The system of claim 1, wherein the camera unit includes: a camera system; an encoder coupled to the camera system that encodes the video signals transmitted by the camera system; and an automatic gain controller coupled to the camera system and the encoder, the automatic gain controller receiving mean, maximum, and minimum intensity video signal values from the camera system, and variance and delta values from the encoder, and providing in response a control signal that controls the gain of the camera system so that the camera unit transmits video signals with substantially constant image luminance for varying lighting conditions.

Claim 26 (original): The system of claim 1, wherein the camera unit includes:
a camera system;
an encoder coupled to the camera system that encodes the video signals transmitted by the camera unit;
an encoder buffer coupled to the encoder; and
an encoder buffer controller coupled to the camera system and the encoder buffer, the encoder buffer controller receiving as inputs an in buffer bit rate input from the encoder, and an out buffer bit rate from the encoder buffer.

Claim 27 (original): The system of claim 1, wherein the camera unit includes a network bandwidth controller that adjusts the signal transmission delay of the camera unit as a function of a network collision rate and the priority of the camera unit.

Claim 28 (original): The system of claim 27, wherein the camera unit autonomously determines its priority based on the type of predefined event it is experiencing.

Claim 30 (original): The system of claim 29, wherein the camera unit is configured to receive an alarm signal from the conventional sensor, and to transmit an event packet over the network in response to receiving the alarm signal from the conventional sensor.

Claim 31 (original): The system of claim 30, wherein the camera unit starts transmitting video and/or audio signals in response to receiving the alarm signal from the conventional sensor.

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Claim 32 (original): The system of claim 30, wherein the camera unit changes a characteristic of transmitted video and/or audio signals in response to receiving the alarm signal from the conventional sensor.

Claim 33 (original): The system of claim 29, wherein the camera unit performs boolean analysis of an alarm signal sent by the conventional sensor and an event detected by the camera unit before transmitting an event packet over the network.

Claim 34 (original): The system of claim 1, wherein the camera unit simultaneously transmits video signals in more than one compression algorithm standard format in response to detecting certain predefined events.

Claim 35 (original): The system of claim 1, wherein the camera unit simultaneously transmits video signals according to the JPEG format and the H.263 format in response to detecting certain predefined events.

Claim 36 (original): The system of claim 1, wherein the camera unit simultaneously transmits video signals having differing bit rates.

Claim 37 (original): The system of claim 1, wherein the camera unit simultaneously transmits video signals having differing frame rates.

Claim 38 (original): The system of claim 1, wherein the camera unit simultaneously transmits video signals having differing pixel coding depths.

Claim 39 (original): The system of claim 1, further comprising at least one administrator workstation coupled to the administrator server.

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Claim 40 (original): The system of claim 39, wherein a graphical user interface is provided at one of the administrator or customer workstations, and wherein the graphical user interface schematically displays event durations for a plurality of camera units.

Claim 41 (original): The system of claim 39, wherein the video or audio information schematically represented by the event duration display is accessible by a user clicking on the event duration display.

Claim 42 (original): The system of 39, wherein the customer and administrator work stations include a multi-algorithm reader that allows the work stations to display successive frames of video signals encoded in different compression algorithm standard formats.

Claim 43 (original): The system of claim 4, wherein the camera unit tags the frames of video and/or audio signals by inserting information in the header of the transmitted frames that identifies the predefined event.

Claim 44 (original): The system of claim 5, wherein the event packet includes information in the header of the event packet that identifies the predefined event.

Claim 45 (currently amended): A digital security system comprising:

at least one camera unit; and

at least one customer work station in communication with the at least one camera unit via a communications network,

wherein the at least one camera unit captures frames of video after detecting a predefined event, and wherein the at least one camera unit transmits the captured frames of video over the communications network to the at least one customer work station, and wherein further the at least one camera unit may be remotely configured by the at least one customer work station to detect the predefined event.

Claim 46 (previously presented): The digital security system of claim 45, wherein the at least one camera unit transmits the captured frames of video over the communications network to the at least one customer work station after the at least one customer work station is authenticated to receive the captured frames of video.

Claim 47 (previously presented): The digital security system of claim 45, wherein the at least one camera unit captures audio after detecting the predefined event, and wherein the at least one camera unit transmits the captured audio over the communications network to the at least one customer work station.

Claim 48 (canceled)

Claim 49 (previously presented): The digital security system of claim 45, wherein the at least one camera unit includes at least one detector for detecting the predefined event.

Claim 50 (previously presented): The digital security system of claim 45, wherein the communications network is the Internet.

Claim 51 (previously presented): The digital security system of claim 45, wherein the at least one camera unit stores the captured frames of video in a buffer before transmitting the captured frames of video over the communications network to the at least one customer work station.

Claim 52 (currently amended): A method for remotely viewing of a predefined event, comprising:

detecting at least one predefined event using at least one detector;

capturing frames of video corresponding to the at least one predefined event, wherein the frames of video are captured by at least one camera unit, and wherein the at least one camera unit is in communication with the at least one detector;

transmitting the captured frames of video to at least one customer work station in communication with the at least one camera unit via a communications network, wherein the at least one camera unit may be remotely configured by the at least one customer work station to detect the predefined event; and

viewing the captured frames of video using the at least one customer work station.

Claim 53 (previously presented): The method of claim 52, further comprising configuring the at least one camera unit to detect at least two different predefined events.

Claim 54 (previously presented): The method of claim 52, wherein the at least one camera unit comprises the at least one detector.

Claim 55 (previously presented): The method of claim 52, further comprising storing the captured frames of video in the at least one camera unit prior to transmitting the captured frames of video to the at least one customer work station.

Claim 56 (previously presented): The method of claim 55, further comprising authenticating the at least one customer work station prior to transmitting the captured frames of video to the at least one customer work station.

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Claim 57 (previously presented): The method of claim 52, further comprising:

capturing audio corresponding to the at least one predefined event, wherein the audio is
captured by at least one camera unit; and
transmitting the captured audio to the at least one customer work station.
